AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An image forming apparatus comprising at least:

a rotary,

a rotary driving motor for rotating the rotary,

a plurality of development units each of which is mounted to said rotary such that the development unit is replaceable at a replacement position and has a development roller for carrying developer-and an input gear, a development unit driving motor for driving said development roller, a development unit driving gear which is disposed outside said rotary such that the development unit driving gear can be selectively meshed with one of said input gears gear of one of said plurality of development units and to which the driving force of said development unit driving motor is transmitted, and

a control device for controlling the drive of said rotary driving motor and said development unit driving motor,

wherein:

during the image forming operation, said development rollers of the respective development units are set at the development position relative to a photoreceptor by turns according to the rotation of said rotary and, at the development position, said input gears gear of each of the respective plurality of development units are meshed with said development unit

driving gear so as to drive said development rollers with the driving force of said development unit driving motor by turns, thereby achieving multi-color development, and

said image forming apparatus being characterized by further comprising a rotary driving motor control means which controls said rotary driving motor for the rotation of said rotary during the non-image forming operation such that the rotational speed of said rotary in a contact region where said input gear collides with said development unit driving gear is lower than the rotational speed of said rotary in a region other than said contact region.

- 2. (currently amended) An image forming apparatus as claimed in claim 1, being characterized in that wherein the rotational speed of-said rotary in the region other than said contact region during the rotation of said rotary in the non-image forming operation is set to be lower than the maximum speed of said rotary rotating during the image forming operation.
- 3. (currently amended) An image forming apparatus as claimed in claim 1 or 2, being characterized in that wherein an impact absorbing means for absorbing an impact generated when said input gear collides with said development unit driving gear during the rotation of said rotary in the non-image forming operation is provided on said development unit driving gear side.
- 4. (currently amended) An image forming apparatus as claimed in any one of claims 1
 through 3claim 1 or claim 2, being characterized in that wherein the rotational speed of said

rotary in the region other than said contact region during the rotation of said rotary in the non-image forming operation is set to a first speed corresponding to the rotational speed of the maximum torque (Tmax) of said development unit driving motor and the speed of said rotary when any one of the input gears passes said contact region during the rotation of said rotary in the non-image forming operation is set to a second speed lower than said first speed.

- 5. (currently amended) An image forming apparatus as claimed in any one of claims 1 through 4claim 1 or claim 2, being characterized in that wherein the rotation of said rotary during said non-image forming operation is at least one of a group consisting of the rotation of said rotary for setting the development unit to be replaced at said replacement position during the operation of replacing said development unit, the rotation of said rotary for resetting and initializing the phase of said rotary after power-on, the rotation of said rotary for initializing the phase of said rotary after sudden power-down, and the rotation of said rotary for moving to the home position after the final development procedure.
 - 6. (currently amended) An image forming apparatus comprising:
- a developing device of a rotary development type having a rotary on which a plurality of development units are mounted, and
- a locking means for positioning said rotary in order to selectively set said development units at a predetermined position and for locking the rotary at the predetermined position, wherein:

said locking means comprises a lockable position formed on said rotary side, a locking member which is movably disposed on the body of the image forming apparatus and has a locking position where the locking member is engaged with said lockable position to lock said rotary and an evacuation position where the locking member is not engaged with said lockable position, a shifting means for shifting said locking member to said evacuation position, and a biasing means for biasing said locking member to said locking position, and

said image forming apparatus being characterized in that said locking member has a contact portion which can come in contact with said lockable position before the engagement with said lockable position according to the rotation of said rotary.

- 7. (currently amended) An image forming apparatus as claimed in claim 6, being characterized in that wherein, in the a driving means for said rotary, a driving pattern is set such that the rotary overruns said predetermined position when the driving means sets said rotary at the predetermined position.
- 8. (currently amended) An image forming apparatus as claimed in claim 6, being characterized by further comprising a driving motor for driving said development unit and said rotary, and a power transmission control means for conducting the transmission and isolation of the driving force of said driving motor to at least one of said development unit and said rotary.

- 9. (currently amended) An image forming apparatus as claimed in any one of claims 6 through 8claim 6 or claim 8, being characterized in that wherein said locking member further has a standby position on said locking position side and wherein said locking member is set at said standby position before said locking member is engaged with said lockable position.
- 10. (currently amended) An image forming apparatus as claimed in any one of claims 6 through 9claim 6 or claim 8, being characterized in that wherein

said lockable position is composed of convexities formed on the rotary, that said locking member is a lock lever which is movably disposed to the body of said image forming apparatus, and

that said lock lever has a concavity engageable with one of said convexities and has a contact portion with which the convexity comes in contact before engaging said concavity according to the rotation of said rotary, and side walls of said concavity are each formed in an arc of a circle of which center is equal to the rotational axis of said lock lever.

11. (currently amended) An image forming apparatus as claimed in claim 10, being-characterized in that wherein:

said convexities are disposed corresponding to said development units, respectively, that said convexities are positioning convexities for development for positioning said rotary at said development position and positioning convexities for replacement for positioning said rotary at said replacement position, and

that said lock lever has a concavity which can be selectively engaged with one of said convexities and has a contact portion with which the convexity comes in contact before engaging said concavity according to the rotation of said rotary.

- 12. (currently amended) An image forming apparatus as claimed in claim 11, being characterized in that wherein the interval in the circumferential direction between said positioning convexity for development and said positioning convexity for replacement for one development unit is set to be smaller than the interval in the circumferential direction between said positioning convexity for replacement for said one development unit and the positioning convexity for development for the next development unit.
- 13. (currently amended) An image forming apparatus as claimed in any one of claims 10 through 12claim 10, being characterized in that wherein:

the end of said each convexity is formed in an arc shape,

that-said contact portion is an inclined face with which the arc-shape end of said convexity can come in contact, and

wherein the start point of said inclined face is formed on an arc of a circle of which center is equal to the rotational axis of said rotary and which passes the ends of said convexities, and that, according to the rotation of said rotary, said convexity comes in contact with said inclined face and presses said inclined face before said convexity is engaged with said concavity.

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14. (currently amended) An image forming apparatus as claimed in any one of claims 6 through 13claim 6 or claim 8, being characterized in that wherein said shifting means is a solenoid.